Vicor Corporation Introduces Higher-Density Picor Cool-Power ZVS Buck Regulators With I2C Telemetry and Programmability

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Wide Input Range, 15A Devices With Digital Interfaces Expand ZVS Buck Regulator Product Line

Nov 13, 2012 (Marketwire via COMTEX) --Electronica 2012 -- Vicor Corporation (NASDAQ: VICR) today introduced 14 new additions to its PI33XX Picor Cool-Power® ZVS buck regulator product line for high efficiency point of load DC-DC regulation. This product line extension includes higher current devices and optional I^2C™ fault telemetry and programmability. The PI33XX products are designed to convert 8V to 36V inputs to high current, low voltage point of load system rails such as 3.3V, 2.5V, 1.8V and 1V, and deliver class-leading performance with advanced power management functions.

The integration of a high performance Zero-Voltage Switching (ZVS) topology within the PI33XX series of Cool-Power ZVS buck regulators enhances point of load performance, providing best in class power efficiency for wide Vin operation. The ZVS topology enables high power density, and high-frequency operation that maximizes efficiency by minimizing the significant switching losses associated with conventional hard-switching buck regulators. The PI33XX series can support high performance conversions with large step down ratios up to the rated input voltage of 36V enabling system designers to deploy more efficient power distribution schemes that rely on a higher input voltage source.

All products in the PI33XX series are highly integrated with control circuitry, power semiconductors and support components in a high density 10mmx14mmx2.56mm LGA System in Package (SiP). Power delivery can be further increased by interleaving multiple Cool-Power ZVS buck regulators using single wire current sharing without the need for any additional components. Cool-Power ZVS series buck regulators require only an external inductor and minimal ceramic capacitors for input and output filtering to form a complete high performance regulator. No frequency compensation, parametric settings or incremental external components are required.

For designers challenged by complex distribution power schemes, Cool-Power ZVS buck regulators are the only buck regulators in their class to offer an optional I^2C extended fault telemetry capability allowing for six distinct types of fault reporting. Additional device-programmable I^2C features include output margining, enable pin and synchronization pin logic polarity, and phase delay. Device programming is easily performed via the Cool-Power Development Tool.

"The high level of customer interest in these new products validates the benefits of our ZVS regulator platform, which enables system designers to deploy more efficient power distribution schemes that operate from a higher voltage input source," said Robert Gendron, Vice President, Marketing and Business Development, Vicor.

Electronica 2012 attendees can visit Vicor in hall A6 at booth 560.

About Picor Cool-Power
The Picor Cool-Power portfolio currently consists of the PI31XX series of isolated converters and the PI33XX series of ZVS buck regulators. The PI33XX series is the initial offering of what will be a comprehensive product family of high density, high performance ZVS point of load regulators. Future products in the family will include additional ZVS buck regulators with different voltage/current capability, ZVS buck-boost regulators, and ZVS boost regulators, all of which are expected to set new industry performance benchmarks.

Pricing and Availability

Picor PI33XX-01-LGIZ Cool-Power ZVS buck regulators are priced at $15.41 for 1,000-unit quantities. Optional I^2C devices, PI33XX-20-LGIZ and PI33XX-21-LGIZ are priced at $14.13 and $16.96 for 1,000-unit quantities, respectively. Visit the website for more information. To order, email custserv@vicr.com or call 1-800-735-6200.

Part Number	Output Range		Iout Max
	Set	Range	
PI3311-01-LGIZ	1.0 V	1.0 - 1.4 V	15 A
PI3318-01-LGIZ	1.8 V	1.4 - 2.0 V	15 A
PI3312-01-LGIZ	2.5 V	2.0 - 3.1 V	15 A
PI3301-01-LGIZ	3.3 V	2.3 - 4.1 V	15 A

Picor Semiconductor Power Solutions
Picor Corporation, a subsidiary of Vicor Corporation, provides high-performance silicon-centric solutions in power conversion and power management. Picor's silicon-centric products complement Vicor's power technology and maintain the Vicor tradition of product innovation and performance.

About Vicor Corporation
Headquartered in Andover, Massachusetts, Vicor Corporation designs, manufactures and markets innovative, high performance modular power components, from bricks to semiconductor-centric solutions, to enable customers to efficiently convert and manage power from the wall plug to the point-of-load. Complementing an extensive portfolio of patented innovations in power conversion and power distribution with significant application development expertise, Vicor offers comprehensive product lines addressing a broad range of power conversion and management requirements

across all power distribution architectures, including CPA, DPA, IBA, FPA and CBA. Vicor focuses on solutions for performance-critical applications in the following markets: enterprise and high performance computing, telecommunications and network infrastructure, industrial equipment and automation, vehicles and transportation and aerospace and defense electronics. www.vicorpower.com

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